



ENTERED

OIPE

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/09/806,276A

TIME: 13:05:53

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

1 <110> APPLICANT: TANG, Y. Tom
2 CORLEY, Neil C.
3 GUEGLER, Karl J.
4 LU, Aina Dyung M.
6 <120> TITLE OF INVENTION: BONE MARROW-DERIVED SERUM PROTEINS
8 <130> FILE REFERENCE: PF-0609 USN
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/806,276A
C--> 11 <141> CURRENT FILING DATE: 2001-03-27
13 <150> PRIOR APPLICATION NUMBER: 09/165,621
14 <151> PRIOR FILING DATE: 1998-10-02
16 <150> PRIOR APPLICATION NUMBER: 60/155,264
17 <151> PRIOR FILING DATE: 1998-10-02
19 <150> PRIOR APPLICATION NUMBER: US99/22908
20 <151> PRIOR FILING DATE: 1999-10-01
22 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: PERL Program
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 234
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: misc_feature
32 <223> OTHER INFORMATION: Incyte ID No: 135698CD1
34 <400> SEQUENCE: 1
35 Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu
36 1 5 10 15
37 Pro Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr
38 20 25 30
39 Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala
40 35 40 45
41 Ser Gln Ser Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
42 50 55 60
43 Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala
44 65 70 75
45 Thr Gly Ile Pro Pro Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
46 80 85 90
47 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Val Ala Leu
48 95 100 105
49 Tyr Tyr Cys Gln Gln Tyr Phe Thr Thr Pro Tyr Thr Phe Gly Gln
50 110 115 120
51 Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val
52 125 130 135
53 Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala

DATE: 03/12/2003

TIME: 13:05:53

Output Set: N:\CRF4\03122003\I806276A.raw

3/12/03

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/09/806,276A

TIME: 13:05:53

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

```
106 Cys Glu Leu Ile Lys Gly Lys Thr Lys Ser Glu Glu Ser Leu Ser
107                               215                      220                      225
108 Asp Leu Thr Gly Ser Leu Leu Ser Leu Gln Leu Asp Leu Gly Pro
109                               230                      235                      240
110 Ser Leu Leu Asp Glu Val Leu Asn Val Met Asp Lys Asn Lys
111                               245                      250
113 <210> SEQ ID NO: 3
114 <211> LENGTH: 962
115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapiens
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <223> OTHER INFORMATION: Incyte ID No: 135698CB1
122 <400> SEQUENCE: 3
123 tcgagccgat tcggctcgag cggctcgagc tcagttagga cccagagggga accatggaag 60
124 cccagctca gcttctcttc ctctgtctac tctggctccc agataccacc ggagaaattg 120
125 tgttgacaca gtctccagcc accctgtctt tgtctccagg ggaaagagcc accctctct 180
126 gcagggccag tcagagtgtt agcagctact tagcctggta ccaacagaaa cctggccagg 240
127 ctcccaggct cctcatctat gatgcattca acagggccac tggcatocca cccaggttca 300
128 gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag cccgaagatg 360
129 tggcacttta ttactgtcag caatatatta ctactccgta cacttttggc caggggacca 420
130 ggctggagat caaacgaact gtggctgcac catctgtctt catcttcccg ccattctgat 480
131 agcagttgaa atctggaact gcctctgttg tgtgctgtct gaataacttc tatcccagag 540
132 aggccaaagt acagtggag gtggataacg cctccaatc gggtaactcc caggagagtg 600
133 tcacagagca ggacagcaag gacagcact acagcctcag cagcacctg acgctgagca 660
134 aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag ggcctgagct 720
135 cgcccgctcac aaagagcttc aacaggggag agtggttagag ggagaagtgc cccacactgc 780
136 tcctcagttc cagcctgacc cctcccatc ctttggcctc tgacctttt tccacagggg 840
137 acctaccctt attgcggtcc tccagctcat ctttcacctc acccccctcc tctccttgg 900
138 ctttaattat gctaattgtg gaggagaatg aataaataaa gtgaatcttt gcaaaaaaaaa 960
139 aa
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 2546
143 <212> TYPE: DNA
144 <213> ORGANISM: Homo sapiens
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <223> OTHER INFORMATION: Incyte ID No: 1859631CB1
150 <220> FEATURE:
151 <221> NAME/KEY: unsure
152 <222> LOCATION: 2533
153 <223> OTHER INFORMATION: a, t, c, g, or other
155 <400> SEQUENCE: 4
156 cggggctagc ccggagaccc ggccaccggc ctggggcgcc ttcacgccgt ctgggagcgg 60
157 ataatgcggt gagcaggcac cagccgggca gactcggctg gatctgcgca cagcggcagg 120
158 gattgcgtgc gcccgcgga ggcgggggag agcggctggg atctcagcg gcggccgggt 180
159 tgtcctggtt gtggtaaga ctggatgatg taactggctc tctaggaagc ctacttggc 240
160 cgtaacctca ggaaggttct ctttgacccc atctcatttc gaagccactt ctgaagccac 300
161 ttgagaaaaa tgatgtgaca gttcctatca aaaaggattc agaaacatat accatctgtg 360
```

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/09/806,276A

TIME: 13:05:53

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

```

162 aagaaagtgg ccctttctcc cgcttgcaaa atagacattc tcaaattcca aaatgccagc 420
163 caagacccca atttacctga aagcagccaa taacaagaaa ggaaagaaat ttaaactgag 480
164 ggacattctg tctcctgata tgatcagtc cccgcttgga gactttcgcc acaccatcca 540
165 cattggcaaa gagggccagc acgatgtctt tggagatatt tccctttctc aagggaacta 600
166 cgagctttta cctggaaacc aggagaaagc acacctgggc cagttccctg ggcataatga 660
167 gttcttcceg gccaacagca cctcggactc tgtgttcaca gaaacgcctt ccccggtgct 720
168 caaaaatgcc atctccctcc cgaccattgg aggatcccaa gctctcatgt tgcccttatt 780
169 gtcaccagtg acatttaatt ccaaacagga gtccctcggg ccagcaaagc tgcccaggct 840
170 tagctgcgag cccgtcatgg aggaaaaagc tcaggagaaa agcagtcctgt tggagaatgg 900
171 gacagtccac caggagaca cctcgtgggg ctccagcggg tctgcatttc agtccagcca 960
172 aggcagagac agccactcct ccagcctgtc cgaacagtac cccgactggc cagccgagga 1020
173 catgtttgac catcccaccc catgcgagct catcaaggga aagactaagt cagaggagtc 1080
174 cctctctgac cttacagggt cctcctcttc cctgcagctt gatcttgggc cctcactttt 1140
175 ggatgaggtg ctgaatgtaa tggataaaaa taagtaacaa gatgccaact tttttccttt 1200
176 ggggtaaaaa gtacaaaaac aaactaacca cagttgaaga gaagggttc cggagctgta 1260
177 tttgcagttt tgtgttgggt tttctaaaat aatattotta caaagtattt ttttacctgt 1320
178 tatgccctgt ttgcaaaaac aatttagaaa aaaacaacaa agcaaaacct atcttggcaa 1380
179 aaaaaggaag tgagtcagag cccattttca ggaggcattg gtgatgttcg gctcacatat 1440
180 tgtttgacag cacacaagaa atctggcttg gccaggattg gcactagcta tgaagggtcg 1500
181 agcgagtcac attaaggaac ttacgggaac tttatagcac tccgacattt tctgagcaag 1560
182 aggaagtcaa aatttattta acacctagc cttttttagt actcttttct atatattgct 1620
183 taggctcacc atagcgaatt ctccagtggt aaaacttttc tgttttcaca tttgaacttt 1680
184 atgggttttg gggattttct tgtagtctct atatattcct atatattata tctatattgc 1740
185 aaaattttga ctgtcagcta catgttggta agacacaggc aaagtattac tgtaactaag 1800
186 ttatttttaa agttaaaata tttttttacg tgcccttggc tttttattgc agagtctaca 1860
187 ttttatagat tctacatcag atgttgtcac ttatttccat tgggattcca ttgtaagctg 1920
188 tgtatgtgcy tgtttggaaa agtgtattca tacttagttt tttttcttc atctgttacc 1980
189 atacttttaa cagcaaccaa taacggattg taaagtgtaa aggcacaggc tactcatgat 2040
190 gcttctgcag agactgtggg ctacaccaca tatgttattt ggaaatatag gtattttagt 2100
191 acagtacata cttgcattac ataggtactt caagcaacac aataaaaagt aaatgataaa 2160
192 gtgaacttgc ttgtttatag taataaacia gaccataaga gaataagtat agctagagaa 2220
193 attgcttctc tgaaatgtac atgagccctt aaggtaagag atgatttcca tctactctca 2280
194 ttttgattac ttcccttatg tttgagaggc tagaaactga gcctctctac ttttgaaaaa 2340
195 atgaacatgt gaggtcagat tttttttttt ttttttaagt cagcactgat gccaccctct 2400
196 cagtggcat ttctgagcat cttcctgact tgaacacctt ctacagcaaa ctcttgcaag 2460
197 tccagtttca tccctgtaag gcaaattgtt tttcacgcag aaagtgccat atagacgaga 2520

```

W--> 198 taaaggcagc tanaacgagg gcagta 2546

200 <210> SEQ ID NO: 5

201 <211> LENGTH: 391

202 <212> TYPE: PRT

203 <213> ORGANISM: Homo sapiens

205 <220> FEATURE:

206 <221> NAME/KEY: misc_feature

207 <223> OTHER INFORMATION: GenBank ID No: g338033

209 <400> SEQUENCE: 5

210 Met Pro Gly Pro Gln Gly Gly Arg Gly Ala Ala Thr Met Ser Leu

211 1 5 10 15

212 Gly Lys Leu Ser Pro Val Gly Trp Val Ser Ser Ser Gln Gly Lys

213 20 25 30

RAW SEQUENCE LISTING

DATE: 03/12/2003

PATENT APPLICATION: US/09/806,276A

TIME: 13:05:53

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

214	Arg	Arg	Leu	Thr	Ala	Asp	Met	Ile	Ser	His	Pro	Leu	Gly	Asp	Phe
215					35					40					45
216	Arg	His	Thr	Met	His	Val	Gly	Arg	Gly	Gly	Asp	Val	Phe	Gly	Asp
217					50					55					60
218	Thr	Ser	Phe	Leu	Ser	Asn	His	Gly	Gly	Ser	Ser	Gly	Ser	Thr	His
219					65					70					75
220	Arg	Ser	Pro	Arg	Ser	Phe	Leu	Ala	Lys	Lys	Leu	Gln	Leu	Val	Arg
221					80					85					90
222	Arg	Val	Gly	Ala	Pro	Pro	Arg	Arg	Met	Ala	Ser	Pro	Pro	Ala	Pro
223					95					100					105
224	Ser	Pro	Ala	Pro	Pro	Ala	Ile	Ser	Pro	Ile	Ile	Lys	Asn	Ala	Ile
225					110					115					120
226	Ser	Leu	Pro	Gln	Leu	Asn	Gln	Ala	Ala	Tyr	Asp	Ser	Leu	Val	Val
227					125					130					135
228	Gly	Lys	Leu	Ser	Phe	Asp	Ser	Ser	Pro	Thr	Ser	Ser	Thr	Asp	Gly
229					140					145					150
230	His	Ser	Ser	Tyr	Gly	Leu	Asp	Ser	Gly	Phe	Cys	Thr	Ile	Ser	Arg
231					155					160					165
232	Leu	Pro	Arg	Ser	Glu	Lys	Pro	His	Asp	Arg	Asp	Arg	Asp	Gly	Ser
233					170					175					180
234	Phe	Pro	Ser	Glu	Pro	Gly	Leu	Arg	Arg	Ser	Asp	Ser	Leu	Leu	Ser
235					185					190					195
236	Phe	Arg	Leu	Asp	Leu	Asp	Leu	Gly	Pro	Ser	Leu	Leu	Ser	Glu	Leu
237					200					205					210
238	Leu	Gly	Val	Met	Ser	Leu	Pro	Glu	Ala	Pro	Ala	Ala	Glu	Thr	Pro
239					215					220					225
240	Ala	Pro	Ala	Ala	Asn	Pro	Pro	Ala	Pro	Thr	Ala	Asn	Pro	Thr	Gly
241					230					235					240
242	Pro	Ala	Ala	Asn	Pro	Pro	Ala	Thr	Thr	Ala	Asn	Pro	Pro	Ala	Pro
243					245					250					255
244	Ala	Ala	Asn	Pro	Ser	Ala	Pro	Ala	Ala	Thr	Pro	Thr	Gly	Pro	Ala
245					260					265					270
246	Ala	Asn	Pro	Pro	Ala	Pro	Ala	Ala	Ser	Ser	Thr	Pro	His	Gly	His
247					275					280					285
248	Cys	Pro	Asn	Gly	Val	Thr	Ala	Gly	Leu	Gly	Pro	Val	Ala	Glu	Val
249					290					295					300
250	Lys	Ser	Ser	Pro	Val	Gly	Gly	Gly	Pro	Arg	Gly	Pro	Ala	Gly	Pro
251					305					310					315
252	Ala	Leu	Gly	Arg	His	Trp	Gly	Ala	Gly	Trp	Asp	Gly	Gly	His	His
253					320					325					330
254	Tyr	Pro	Glu	Met	Asp	Ala	Arg	Gln	Glu	Arg	Val	Glu	Val	Leu	Pro
255					335					340					345
256	Gln	Ala	Arg	Ala	Ser	Trp	Glu	Ser	Leu	Asp	Glu	Glu	Trp	Arg	Ala
257					350					355					360
258	Pro	Gln	Ala	Gly	Ser	Arg	Thr	Pro	Val	Pro	Ser	Thr	Val	Gln	Ala
259					365					370					375
260	Asn	Thr	Phe	Glu	Phe	Ala	Asp	Ala	Glu	Glu	Asp	Asp	Glu	Val	Lys
261					380					385					390
262	Val														

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/806,276A

DATE: 03/12/2003
TIME: 13:05:54

Input Set : A:\pf0609usn_subseqlist.txt
Output Set: N:\CRF4\03122003\I806276A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 2533

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/806,276A

DATE: 03/12/2003

TIME: 13:05:54

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:2520